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Proctor, William A.

TECHNICAL PLANNING MONOGRAPH #3
CHANGES IN INDUSTRIAL LAND USE
SAN FRANCISCO, 1919-1937

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DEPARTMENT OF CITY PLANNING

City and County of San Francisco

TECHNICAL PLANNING MONOGRAPH

3

CHANGES IN INDUSTRIAL LAND USE
SAN FRANCISCO, 1919 - 1937

A report on the first half of the Industrial
Land Use Absorption Study, showing acreage and
rate of change in acreage used by heavy and
light industry and in industrial acreage used
for warehousing.

Prepared by:

William A. Proctor, Planning Research and Administration
Division, under direction of George S. Duggar.

18 November 1948

Of the 353.6 acres of industrial land use increase (excluding warehousing) which occurred between 1919 and 1937, almost half, or 188.7 acres, occurred in the Potrero-Bayview area of the city, in Census Tracts L-1 through L-5. This increase is due primarily to the development of new industrial properties in: (a) the Islais Creek marsh fill lowland area between Bayshore Boulevard, Third Street, Army Street, and Newcombe Avenue; (b) new fill land on the bay shore near Third Street, and new fill land bordering Islais Channel near Third Street and Arthur Avenue; (c) the industrial zone bounded by Paul Avenue, Third Street, Phelps Street, and Williams Street, which was being used for truck gardens in 1919. The increase in industrial land use in Tracts L-1 through L-5 amounted to close to 70 per cent.

The second largest increase, 161.0 acres, took place in the South-of-Market area, Census Tracts K-1 through K-6, bounded roughly by Van Ness Avenue South (formerly Howard Street), 16th Street, Market Street, and the bay. Here, the increase amounted to a little over 68 per cent. This region had little vacant land in 1919, and was predominantly light industrial in character, and the increases in industrial use largely represented replacement of substandard living quarters by industrial enterprises.

The North Embarcadero-North Beach area accounted for only 22.3 acres increase, the downtown "Triangle" district for only 11 acres increase, and the other areas studied had less than 10 acres apiece increase in industrial land use between 1919 and 1937.

Not all sections of the city were covered in this survey, but only those containing considerable industry. A considerable number of light industrial establishments are located in the Western Addition,



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By districts, 1919 - 1937 industrial use increases were:

INCREASES IN INDUSTRIAL USES, 1919 through 1937
(EXCLUDING WAREHOUSING)

DISTRICT	TYPE OF INDUSTRY	ESTIMATED ACREAGE 1919 (Acres)	INCREASE 1919 - 1937 (Acres)	ACREAGE 1937 (Acres)	PER CENT INCREASE (Per Cent)
North Beach, Chinatown, North Embar- cadero	Total	<u>39.0</u>	<u>22.3</u>	<u>61.3</u>	57.3 %
	Light	13.0	23.5	36.5	180.0 %
	Heavy	26.0	- 1.2	24.8	- 4.6 %
Downtown	Total	<u>21.6</u>	<u>11.4</u>	<u>33.0</u>	52.7 %
	Light	17.4	11.0	28.4	63.2 %
	Heavy	4.2	0.4	4.6	8.8 %
South-of-Market	Total	<u>234.5</u>	<u>161.0</u>	<u>395.5</u>	68.7 %
	Light	123.0	157.0	271.0	127.6 %
	Heavy	111.5	13.0	124.5	11.7 %
Potrero-Bayview- Hunter's Pt.	Total	<u>271.2</u>	<u>188.7</u>	<u>459.9</u>	69.6 %
	Light	24.8	154.1	178.9	621.3 %
	Heavy	246.4	34.6	281.0	14.0 %
Mission-Holley Pk.	Total	<u>10.8</u>	<u>0.6</u>	<u>11.4</u>	5.5 %
	Light	2.1	5.2	7.3	244.3 %
	Heavy	8.7	- 4.6	4.1	- 52.3 %
Mission Distr.	Total	<u>26.7</u>	<u>9.2</u>	<u>35.7</u>	34.7 %
	Light	12.9	12.8	25.7	99.1 %
	Heavy	13.8	- 3.6	10.0	-26.5 %
TOTALS	TOTAL	<u>603.6</u>	<u>393.2</u>	<u>996.8</u>	65.1 %
	LIGHT	193.2	353.6	547.8	183.0 %
	HEAVY	410.4	38.6	449.0	9.4 %

Warehousing has been excluded from the above figures since, although it is classed as industry in both the 1919 and 1937 land use maps, it differs from industrial uses of other types in: (a) ratio of employees to acreage; (b) nuisances; (c) use of materials. For many statistical purposes, therefore, figures for industrial uses excluding warehousing would be more significant in comparison with other

C. METHOD USED

The method called for a comparison of industrial land in use in 1919 and in 1937. The 1937 acreage totals were obtained from summaries and tabulations of the 1937 Land Use Survey, made by the U.S. Works Progress Administration, and sponsored by the City Planning Commission. These data included figures for individual blocks, census tracts, and larger districts in the city. They were published in the Report on Present and Future Uses of the Land by the San Francisco City Planning Commission in November, 1944. They were also used to make up the 1937 Land Use Maps which were also completed as a part of the WPA project.

Industrially-used land in 1919 was determined from the 1919 Land Use Maps, which were drawn up at that time by the City Engineer's Office from a land use survey undertaken as groundwork for the city's first zoning ordinance, passed later in 1921. Where map data was indistinct or incomplete, data was obtained directly from the survey material itself, (i.e., field notes accompanying photostatic copies of the 1918 edition of the Sanborn insurance underwriters property block diagrams).

Measurement of increases in industrially-used land between 1919 and 1937 on a block-by-block basis, was accomplished by means of an overlay map based on the 1919 and 1937 land use maps (both of which were drawn to the same scale). Distinctive colors were used to outline pieces of property used in light or heavy industry in 1919. The overlay was then superimposed on the corresponding section of the 1937 land use map, and increases or decreases in light or heavy industry (or changes in classification from light to heavy industry or vice versa) were indicated by cross-hatching in distinctive colors.

Plots thus outlined and cross-hatched on the overlay map were then measured in acres, parcel by parcel, and entries recorded on work sheets. Acreages of increases and decreases in light and heavy and total industrial use, and net changes, were totalled by blocks, census tracts, and larger districts in the city.

Figures for 1919 constitute estimated acreages obtained by subtracting the above-mentioned 1919-1937 changes from the acreage figures for 1937.

Warehousing data were also included on the overlay map, having been obtained from the 1937 editions of the Sanborn insurance underwriters block diagrams, and from other sources. Similarly, acreage for warehousing activities was obtained from the 1919 land use survey data (Sanborn photostats and field notes).

One major difficulty encountered was a difference in definition as to what constituted "light industry" in 1919 and the activities so classified in 1937. Likewise differing definitions of heavy industry and commercial activities were encountered in the two land use surveys. As mentioned above, it was found that breweries and lumber yards were classified as "heavy industry" in 1919, but as "light industry" in 1937. It was found, in checking known locations of breweries on the overlay map, that it indicated that a change from "heavy" to "light" industry had taken place, although in fact the same activity had been going on there all the time. The same was found to be true of lumber yards. Commission houses were "heavy commercial" in 1919 and "light industry" in 1937. Corrections were made for these three items, and data adjusted accordingly. The parcels involved were located on the

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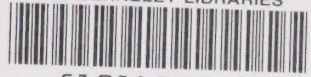
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